

channel		function	type of control	effect	decimal		percentage	
16 bit	8 bit							
1	1	X axis, base movement (pan) coarse	proportional	proportional coarse control of the base motor movement	0	- 255	0%	- 100%
2	2	X axis, base movement (pan) fine	proportional	proportional fine control of the base motor movement	0	- 255	0%	- 100%
3	3	Y axis, yoke movement (tilt) coarse	proportional	proportional coarse control of the yoke motor movement	0	- 255	0%	- 100%
4	4	Y axis, yoke movement (tilt) fine	proportional	proportional fine control of the yoke motor movement	0	- 255	0%	- 100%
5	5	movement speed	step	standard (fast)	0	- 10	0%	- 4%
			step	ultra fast movement (best for programming positions)	11	- 25	4%	- 10%
			proportional	vector mode (from fast to slow)	26	- 127	10%	- 50%
			proportional	tracking mode (from fast to slow)	128	- 247	50%	- 97%
			step	tracking mode (slow)	248	- 255	97%	- 100%
6	6	dimmer	proportional	gradual adjustment of luminous intensity from 0 to 100%	0	- 255	0%	- 100%
7	7	shutter, strobe and zap effect	step	shutter closed (zap off)	0	- 9	0%	- 4%
			proportional	strobe effect with variable speed from slow to fast	10	- 66	4%	- 26%
			step	shutter open (zap off)	67	- 68	26%	- 27%
			proportional	sequenced pulse effect, slow closing, fast opening (with variable speed from slow to fast)	69	- 125	27%	- 49%
			step	shutter open (zap off)	126	- 127	49%	- 50%
			proportional	sequenced pulse effect, fast closing, slow opening (with variable speed from fast to slow)	128	- 184	50%	- 72%
			step	shutter open (zap off)	185	- 187	73%	- 73%
			proportional	random strobe effect, non-synchronised, variable speed from slow to fast	188	- 244	74%	- 96%
8	8	iris diaphragm (LIN-Linear)	step	open	0	- 9	0%	- 4%
			proportional	from maximum to minimum aperture	10	- 255	4%	- 100%
8	8	iris diaphragm (with internal PULS effect)	step	open	0	- 9	0%	- 4%
			proportional	from maximum to minimum aperture	10	- 124	4%	- 49%
			step	minimum diameter	125	- 129	49%	- 51%
			proportional	pulsing with proportional increase in speed	130	- 189	51%	- 74%
			step	open	190	- 192	75%	- 75%
			proportional	pulse and flash effect with proportional increase in speed	193	- 255	76%	- 100%
Note 1: the iris diaphragm operation will vary according to the selection made for IRIS on the display panel (linear LIN or with internal PULS effect)								
9	9	zoom	proportional	proportional control of zoom effect wheel from narrow to wide beam	0	- 255	0%	- 100%
10	10	focus	proportional	proportional control of focus	0	- 255	0%	- 100%
11	11	rotation gobo selection on wheel 1 (standard)	step	no gobo	0	- 10	0%	- 4%
				gobo 1	11	- 40	4%	- 16%
				gobo 2	41	- 70	16%	- 27%
				gobo 3	71	- 100	28%	- 39%
				gobo 4	101	- 130	40%	- 51%
				gobo 5	131	- 160	51%	- 63%
				gobo 6	161	- 192	63%	- 75%
			proportional	continuous rotation of the gobo wheel from slow to fast	193	- 255	76%	- 100%
11	11	rotation gobo selection on wheel 1 (effect activated from channel 31/28)	step	no gobo	0	- 10	0%	- 4%
				proportional	from gobo 1 to gobo 6 through 360° gobo 1 (central value 36) gobo 2 (central value 62) gobo 3 (central value 88) gobo 4 (central value 114) gobo 5 (central value 140) gobo 6 (central value 166)	11	- 192	4%
			proportional	continuous rotation of the gobo wheel from slow to fast	193	- 255	76%	- 100%
Note 2: channel 11 will vary according to the selection made for channel 31 (16 bit) / 28 (8 bit)								

channel		function	type of control	effect	decimal		percentage	
16 bit	8 bit							
12	12	indexing gobo rotation on wheel 1 through 360°	step	no effect	0	- 10	0%	- 4%
			proportional	proportional indexing of the gobos through 360°	11	- 255	4%	- 100%
13		fine indexing of the gobos	proportional	fine indexing of the gobo (gobo wheel 1)	0	- 255	0%	- 100%
14	13	gobo rotation on wheel 1	step	no effect	0	- 10	0%	- 4%
			proportional	continuous rotation of the gobo in a clockwise direction with proportional control over decreasing speed	11	- 131	4%	- 51%
			step	gobo stop	132	- 134	52%	- 53%
			proportional	continuous rotation of the gobo in a counter-clockwise direction with proportional control over increasing speed	135	- 255	53%	- 100%
Note 3: when channel 12 is set to a level between 0 and 10, gobo rotation does not effect indexing, the gobo stops instantly								
15	14	rotating gobo selection on wheel 2 (standard)	step	no gobo	0	- 10	0%	- 4%
				gobo 1	11	- 40	4%	- 16%
				gobo 2	41	- 70	16%	- 27%
				gobo 3	71	- 100	28%	- 39%
				gobo 4	101	- 130	40%	- 51%
				gobo 5	131	- 160	51%	- 63%
				gobo 6	161	- 192	63%	- 75%
proportional	continuous rotation of the gobo wheel from slow to fast	193	- 255	76%	- 100%			
15	14	rotating gobo selection on wheel 2 (effect activated from channe 31/28)	proportional	no gobo	0	- 10	0%	- 4%
				from gobo 1 to gobo 6 through 360°				
				gobo 1 (central value 36)	11	- 192	4%	- 75%
				gobo 2 (central value 62)				
gobo 3 (central value 88)								
gobo 4 (central value 114)								
gobo 5 (central value 140)								
gobo 6 (central value 166)								
continuous rotation of the gobo wheel from slow to fast	193	- 255	76%	- 100%				
Note 4: channel 15 (16bit) / 14 (8bit) will vary according to the selection made for channel 31 (16 bit) / 28 (8 bit)								
16	15	indexing gobo rotation on wheel 2 through 360°	step	no effect	0	- 10	0%	- 4%
			proportional	proportional indexing of the gobos through 360°	11	- 255	4%	- 100%
17		fine indexing of the gobos	proportional	fine indexing of the gobo (gobo wheel 2)	0	- 255	0%	- 100%
18	16	gobo rotation on wheel 2	step	no effect	0	- 10	0%	- 4%
			proportional	continuous rotation of the gobo in a clockwise direction with proportional control over decreasing speed	11	- 131	4%	- 51%
			step	gobo stop	132	- 134	52%	- 53%
			proportional	continuous rotation of the gobo in a counter-clockwise direction with proportional control over increasing speed	135	- 255	53%	- 100%
Note 5: when channel 16 (16bit) / 15 (8 bit) is set to a level between 0 and 10, gobo rotation does not affect indexing, the gobo stops instantly								
19	17	rotating gobo selection on wheel 3 (standard)	step	no gobo	0	- 10	0%	- 4%
				gobo 1	11	- 40	4%	- 16%
				gobo 2	41	- 70	16%	- 27%
				gobo 3	71	- 100	28%	- 39%
				gobo 4	101	- 130	40%	- 51%
				gobo 5	131	- 160	51%	- 63%
				gobo 6	161	- 192	63%	- 75%
proportional	continuous rotation of the gobo wheel from slow to fast	193	- 255	76%	- 100%			
19	17	rotating gobo selection on wheel 3 (effect activated from channel 31/28)	proportional	no gobo	0	- 10	0%	- 4%
				from gobo 1 to gobo 6 through 360°				
				gobo 1 (central value 36)	11	- 192	4%	- 75%
				gobo 2 (central value 62)				
gobo 3 (central value 88)								
gobo 4 (central value 114)								
gobo 5 (central value 140)								
gobo 6 (central value 166)								
continuous rotation of the gobo wheel from slow to fast	193	- 255	76%	- 100%				
Note 6: channel 19 (16 bit) / 17 (8 bit) will vary according to the selection made for channel 31 (16 bit) / 28 (8 bit)								
20	18	indexing gobo rotation on wheel 3 through 360°	step	no effect	0	- 10	0%	- 4%
			proportional	proportional indexing of the gobos through 360°	11	- 255	4%	- 100%
21		fine indexing of the gobos	proportional	fine indexing of the gobo (gobo wheel 3)	0	- 255	0%	- 100%

channel		function	type of control	effect	decimal		percentage	
16 bit	8 bit							
22	19	gobo rotation on wheel 3	step	no effect	0	- 10	0%	- 4%
			proportional	continuous rotation of the gobo in a clockwise direction with proportional control over decreasing speed	11	- 131	4%	- 51%
			step	gobo stop	132	- 134	52%	- 53%
			proportional	continuous rotation of the gobo in a counter-clockwise direction with proportional control over increasing speed	135	- 255	53%	- 100%
Note 7: when channel 20 (16bit) / 18 (8 bit) is set to a level between 0 and 10, gobo rotation does not affect indexing, the gobo stops instantly								
23	20	colours selection from the colour wheel	step	no colour, white beam	0	- 5	0%	- 2%
				colour 1	6	- 14	2%	- 5%
				colour 2	15	- 22	6%	- 9%
				colour 3	23	- 30	9%	- 12%
				colour 4	31	- 38	12%	- 15%
			proportional	colour 5	39	- 45	15%	- 18%
				from colour 5 to colour 1, proportional positioning	46	- 127	18%	- 50%
				rainbow effect from fast to slow in an anticlockwise direction	128	- 190	50%	- 75%
			rainbow effect from slow to fast in a clockwise direction	191	- 255	75%	- 100%	
24	21	cyan	proportional	proportional control of the percentage of cyan color in the light beam from 0 to 100%	0	- 255	0%	- 100%
25	22	magenta	proportional	proportional control of the percentage of magenta color in the light beam from 0 to 100%	0	- 255	0%	- 100%
26	23	yellow	proportional	proportional control of the percentage of yellow color in the light beam from 0 to 100%	0	- 255	0%	- 100%
27	24	CTO	proportional	proportional control of the percentage of CTO in the light beam from 6300°K to 3200°K	0	- 255	0%	- 100%
28	25	zap effect (effect varies depending upon channel 7 strobe)	step	no effect	0	- 10	0%	- 4%
				zap effect synchronised with the strobe effect, speed and mode selected by strobe channel 7	11	- 30	4%	- 12%
				zap effect, flicker and speed adjustable, speed and mode selected by strobe channel 7	31	- 249	12%	- 98%
				black-out of the light beam during PAN/TILT movement, colors wheel and effects wheel	250	- 255	98%	- 100%
29	26	gobo effect selection	step	no effect	0	- 10	0%	- 4%
				proportional movement of the gobo wheels through 360°	11	- 133	4%	- 52%
				proportional-stepmovement of the gobo wheels through 360°	134	- 255	53%	- 100%
30	27	lamp power control in conjunction with channel 31/28	proportional	lamp power adjustment from minimum to maximum (800W – 1500W) when channel 31/28 is between 171 – 195 dmx	0	- 255	0%	- 100%
31	28	lamp on/off and motors reset	step	park, no function	0	- 10	0%	- 4%
				lamp off	10	- 29	4%	- 11%
				pan and tilt reset (once only)	30	- 65	12%	- 25%
				all motor reset exept dimmer, pan and tilt (once only)	66	- 100	26%	- 39%
				all motor reset exept dimmer (once only)	101	- 135	40%	- 53%
				reset of all the motors (once only)	136	- 170	53%	- 67%
				lamp on, enabled power adjustment from 800W to 1500W	171	- 195	67%	- 76%
				lamp on, maximum power	196	- 255	77%	- 100%
Nota 8: the display panel may be used to disable the switching off of the lamp via DMX								
Nota 9: turning off the lamp and all reset functions are delayed by 6 seconds to prevent accidental activation								
Nota 10: the lamp on/off function can only be effected if an opposite level is set								
Projector: InfinitySpot XL			Table name: DMX 512 functions					
Table number: 287			Edition: 1		Date: 08/05/2009			